

Distributed by:



**[www.Jameco.com](http://www.Jameco.com) ♦ 1-800-831-4242**

The content and copyrights of the attached  
material are the property of its owner.



# LT182X-81-HE

## 5.0MM ROUND LAMP (HIGH EFFICIENCY GREEN)

### Features

- \* HIGH EFFICIENCY GREEN
- \* HIGH LIGHT OUTPUT
- \* RELIABLE AND RUGGEN
- \* IC COMPATIBLE

**Jameco Part Number**  
**152821**

### Absolute Maximum Ratings at $T_A=25^{\circ}\text{C}$

|                                                          |                                                 |
|----------------------------------------------------------|-------------------------------------------------|
| REVERSE VOLTAGE ( $<100 \mu\text{A}$ ).....              | 5.0V                                            |
| D.C. FORWARD CURRENT .....                               | 30 mA                                           |
| PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)..... | 100 mA                                          |
| OPERATING TEMPERATURE RANGE.....                         | $-25^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$  |
| STORAGE TEMPERATURE RANGE.....                           | $-25^{\circ}\text{C}$ TO $+100^{\circ}\text{C}$ |
| LEAD SOLDERING TEMP. (1.6mm FROM BODY).....              | $260^{\circ}\text{C}$ FOR 5 SEC.                |

### Electrical/optical characteristics at $T_A=25^{\circ}\text{C}$

| PART NUMBER  | LED CHIP |                | LEN'S COLOR | PEAK WAVELENGTH @20 mA (nm) | FORWARD VOLTAGE @20mA(V) |      | LUMINOUS INTENSITY @20mA(mcd) |      | VIEW ANGLE $2\theta_{1/2}$ (deg) |
|--------------|----------|----------------|-------------|-----------------------------|--------------------------|------|-------------------------------|------|----------------------------------|
|              | MATERIAL | EMITTING COLOR |             |                             | TYP.                     | MAX. | MIN.                          | TYP. |                                  |
| LT1821-81-HE | GaP      | GREEN          | G.D.        | 567                         | 2.1                      | 2.6  | 58                            | 96   | 41                               |
| LT1822-81-HE | GaP      | GREEN          | W.D.        | 567                         | 2.1                      | 2.6  | 58                            | 96   | 41                               |
| LT1823-81-HE | GaP      | GREEN          | W.C.        | 567                         | 2.1                      | 2.6  | 300                           | 500  | 19                               |
| LT1824-81-HE | GaP      | GREEN          | G.C.        | 567                         | 2.1                      | 2.6  | 300                           | 500  | 19                               |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |
|              |          |                |             |                             |                          |      |                               |      |                                  |

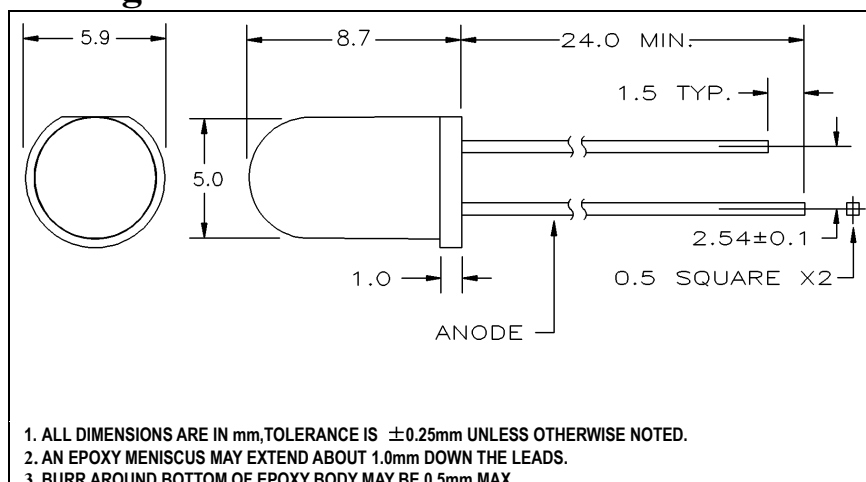
(1) LEN'S COLOR

G.D....GREEN DIFFUSED  
W.D....WHITE DIFFUSED  
G.C....GREEN CLEAR  
W.C....WATER CLEAR

(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3) ALL ABOVE COMPONENTS ARE CONSIDERED .  
DEVIATIONS FROM STATED SPECIFICATIONS WILL  
REQUIRE A NEW PART NUMBER BE ASSIGNED .

### Package Dimensions



### Radiation Pattern

